

```

graph TD
    12[INPUT IMAGE] --> 10([DESIGN THE DISCRETE  
PARAMETER DOMAIN])
    14[LENGTH OF LINES  
TO BE DETECTED] --> 10
    10 --> 16[INITIALIZE PARAMETER DOMAIN]
    16 --> 18["(START OF 1st LOOP)  
FOR EVERY POSITION IN THE  
PARAMETER DOMAIN"]
    18 --> 20[COMPUTATION OF LINE / CURVE  
DETERMINISTIC PARAMETERS]
    20 --> 22["(START OF 2nd LOOP)  
DETERMINATION OF CORRESPONDING  
PIXEL'S COORDINATES"]
    22 --> 24[FINDING THE NEAREST PIXEL TO  
DETERMINED COORDINATES IN  
THE INPUT IMAGE]
    24 --> 26{NUMERICAL  
VALUE OF PIXEL  
IS ZERO ?}
    26 -- YES --> 28[INCREMENT NUMBER  
OF ZERO PIXELS]
    28 --> 30[SAVE THE PIXEL'S  
COORDINATES IN THE  
1st LAYER OF DATABASE]
    30 --> 32[SAVE THE OBTAINED  
VALUE IN THE 4th LAYER  
OF DATABASE]
    32 --> 22
    26 -- NO --> 34[INCREMENT NUMBER  
OF NON ZERO PIXELS]
    34 --> 36[SAVE THE PIXEL  
COORDINATES IN THE  
2nd LAYER OF DATABASE]
    36 --> 40[ACCUMULATION OF  
PIXEL NUMERICAL  
VALUES]
    40 --> 42[SAVE THE OBTAINED  
VALUE IN THE 5th LAYER  
OF DATABASE]
    42 --> 44{END  
OF THE 2nd  
LOOP ?}
    44 -- NO --> 22
    44 -- YES --> 46{END  
OF THE 1st  
LOOP ?}
    46 -- YES --> 48[ ]
    46 -- NO --> 18

```

09900886-071001

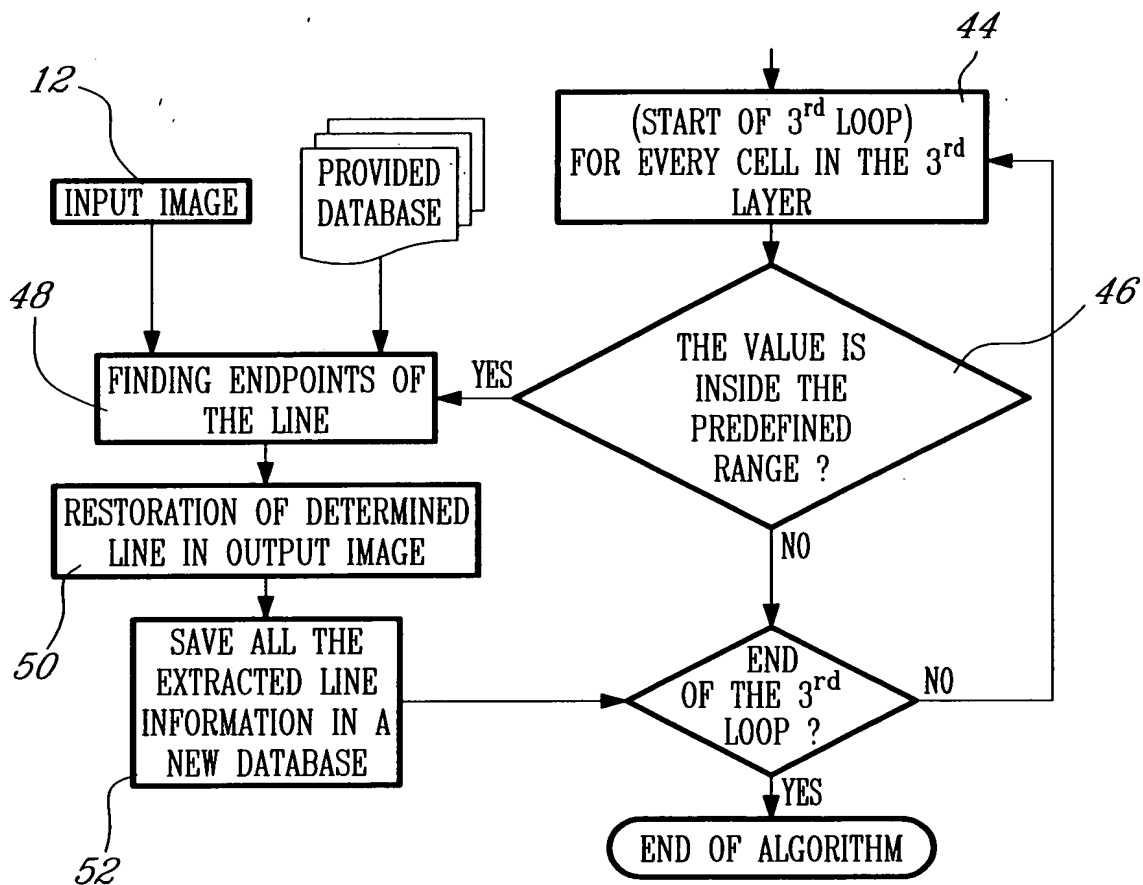


FIG. 1B

09900886-071001

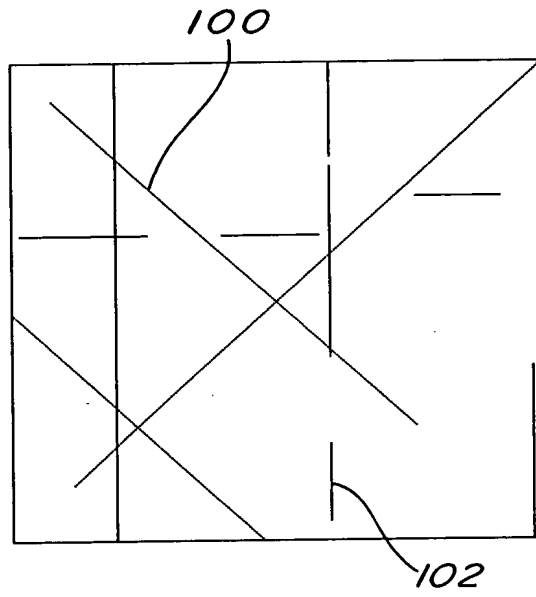


FIG. 2

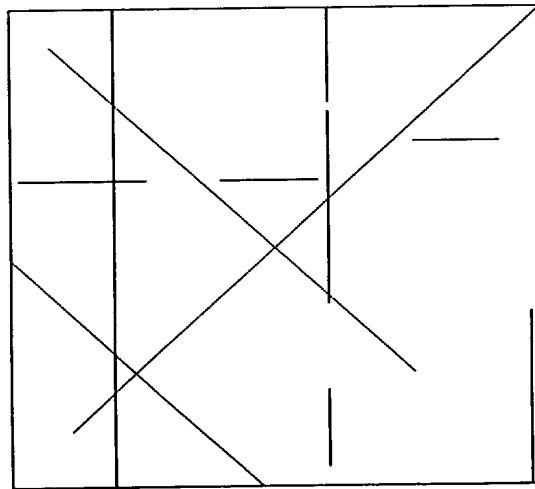


FIG. 3

09900888.071001

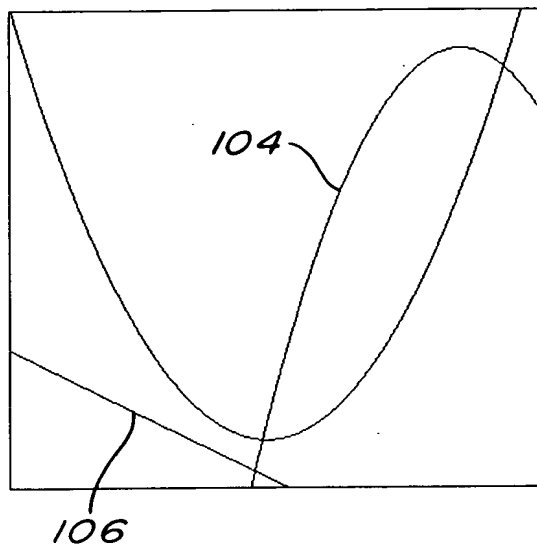


FIG. 4

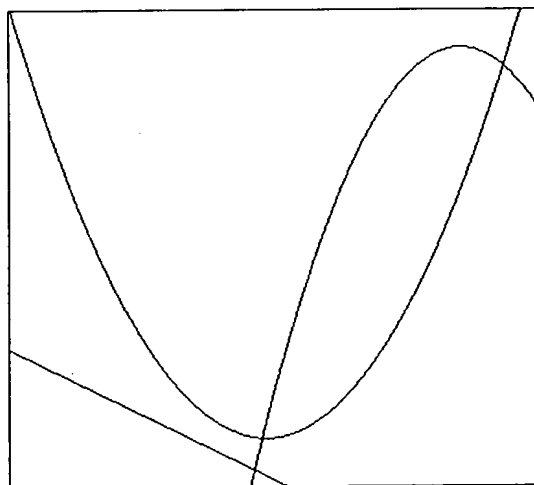


FIG. 5

090000650 071001



FIG. 6

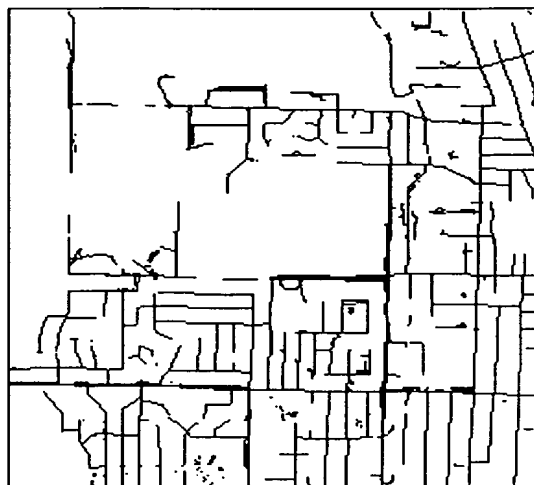


FIG. 7



FIG. 8

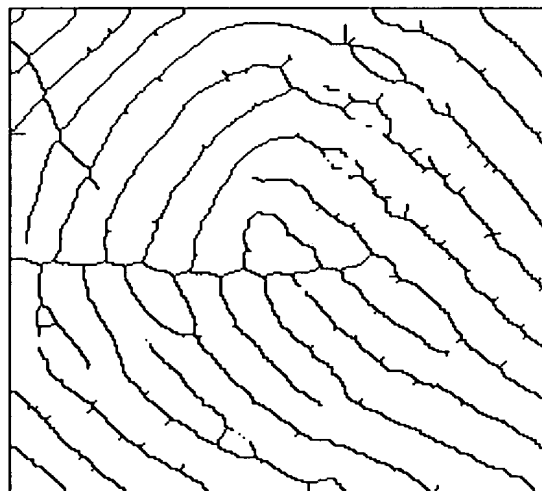


FIG. 9

